

ENERGY STAR Products Partner Meeting Getting Technical

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Moderators



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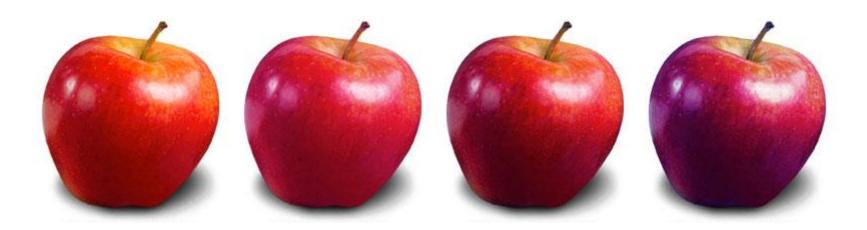
ICF Lighting Technical Lead for ENERGY STAR Product
Development
ICF







With the release of Lamps V2.1, CRI is now an Allowable Product Variation.









With the Release of Lamps V2.1, the LED Package is now an Allowable Product Variation.







Poll 3: Elevated Temperature Life Test data

Will DOE accept ENERGY STAR Elevated Temperature Life Test data?

- A. Yes
- B. No
- C. Unsure





DOF has indicated they will (11/4/2016 NOPR) but nothing is final yet.

Reminder: Until DOE finalizes a regulatory change, EPA expects manufacturers using the U.S. Department of Energy Conservation Test Procedure for Integrated Light-Emitting Diode Lamps will seek a test procedure waiver from DOE by submitting an application in accordance with the DOE regulations documenting that test samples were operated at temperatures more stringent than those outlined in the federal register. 5



Poll 4: Life Testing

Does ENERGY STAR allow for less than 6,000 hours of life testing in accordance with the DOE test procedure for LED lamps?

- A. Yes
- In the No. Even though DOE allows 15,000-hour life representations based on ~4,400 hours of testing, EPA requires 6,000-hour minimum test duration for products seeking ENERGY STAR certification.
 - C. Unsure









2200K and 2500K filament-style lamps can earn early interim certification based on 3,000 hours of life testing.

These nominal CCTs are limited to filament-style lamps and are not eligible for early interim certification.

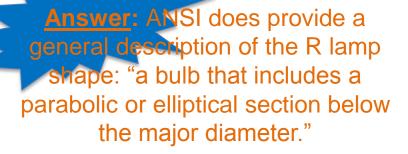






Directional Lamp Shape Equivalency

How should R16 lamps be handled? There are many examples of incandescent versions of this lamp, but there is not an ANSI lamp shape for it.



EPA's expectation is that products seeking ENERGY STAR certification as an R16 meet the intent of the ANSI description and mimic the shape and size of the incandescent R16 product it is designed to replace.







Panel Lights

What would distinguish a panel light that is excluded from the scope from a decorative ceiling surface mount light that uses a side-lit or backlit panel?



CB who will contact EPA-if

there is still a question.

1 SPECIFICATION SCOPE & LUMINAIRE CLASSIFICATION

The ENERGY STAR Luminaires specification ("this specification") covers luminaire types outlined in this section. This specification is limited to residential type lighting products, however to the extent that products that fall under the scope of this specification are sold into the commercial market, they may be included and listed appropriately for the applicable end user. It is a section in a section in a section of a section in Section 4 for definitions of each directional luminaire type detailed below. Que the section in Section Body or Section Bo

Excluded products

- Commercial outdoor lighting (e.g. street and area, wall packs, care
- High or low bay luminaires
- Recessed troffers and other linear fluorescent fixtures
- Luminaire types typically employed for general office illumination successful.
- HID sources or their SSL replacements
- Socket adapters or converters

LED lamps intended to replace linear fluorescent, pin-based compact fluorescent or high-intensity discharge lamps.





NEMA 77

When testing to NEMA 77 for the ENERGY STAR flicker reporting requirements, are the 5 dimmers to be used, or the NEMA SSL 7 waveform generator that simulates a dimmer?



Only partners registered for the NEMA compatibility program may use the waveform generator







Lamps with Additional Features

Are lamps with additional features such as battery backups, motion sensors, etc. allowed, and if so what features would be allowed?

1.2. Excluded Products:

Answers can often be found in the spec. When in doubt contact your CB.

- Lamps, other than MR and halogen capsule replacements, that operate only contact. (i.e., not integral to the lamp) ballast, driver or transformer, e.g., pin-based fluorescent lamps (linear and corporate) or their solid-state replacements.
- LED lamps intended to replace linear fluorescent lamps.
- LED lamps intended to replace pin-based compact fluorescent lamps.
- LED lamps intended to replace high-intensity discharge lamps.
- Lamps powered by an internal power source (e.g., solar-powered cell).
- Lamps incorporating power-consuming features in the on or off state which are not related to control of illumination (e.g., audio functions, air fresheners, or cameras).
- Lamp technologies lacking applicable industry standardized methods of measurement.
- Lamps with bases not covered in ANSI standards.





Luminaires with Additional Features



Is a desktop portable lamp with a USB charger allowed, and if so is this tested with the USB charger bypassed or as sold?



8.5 Standby Power Consumption: All Luminaires

		Methods c
Source Type	ENERGY STAR Requirements	Measurement a
		Reference Docu
All Source	Luminaires shall not draw power in	Method of
Types	the off state.	Measurement:
		IEC 62301 ED.2.1
	Exceptions:	2011 Household
	 Luminaires with integral motion 	Electrical Applian
	sensors, occupancy sensors or	Measurement of
	photosensors, or connected	Standby Power
	functionality may draw up to 0.5	
	watts in standby mode.	
	 Luminaires with energy saving 	Reference docum
	features i.e. integral motion sensors,	International Effic
	occupancy sensors or photosensors	Marking Protocol
	and connected functionality may	http://www.regulatio
	draw up to 1 watt in standby mode.	!documentDetail;D= 2008-BT-STD-0005
	 Power supplies connected to 	2000-D1-31D-0003





Luminaires with Multiple Mounting Options

If a product can be surface mounted and mounted to a recessed can opening, how should it be classified for certification purposes?



Answer:

Assuming they are a downlight the criteria is not based on mounting.

On the QPL the Partner must choose a classification for which the product will be evaluated against and can include a listing note that the model has multiple mounting options.





Residential Portable Work Lights

How should we distinguish a portable work light for residential (garage, outdoor) vs commercial use? Is there a lumen level, any features that would distinguish, etc.

When in doubt contact your CB who will contact EPA if there is still a question



1 SPECIFICATION SCOF LUMINAIRE CLASSIFICATION

The ENERGY STAR Luminaires specification ("this specification") covers luminaire types outlined in this section. This specification is limited to residential type lighting products, however to the extent that products that fall under the scope of this specification are sold into the commercial market, they may be included and listed appropriately for the applicable end user. Certification is limited to luminaires below a total input power of 250 watts intended to be connected directly to the electric power grid. Refer to the Definitions section in Section 4 for definitions of each directional luminaire type detailed below. Questions about scope may be directed to an EPA recognized Certification Body or Iighting@energystar.gov.





Resources

- <u>Luminaires specification V2.0</u>
- <u>Lamps Specification V2.1</u>
- <u>Lighting@energystar.gov</u>
- Jantz-sell.taylor@epa.gov
- Daniel.Rogers@icf.com
- <u>Lighting certification FAQs</u>

